



10/ 664303

[Signature]
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

U. S. PATENT: 6875555

CASE NO.: CL2275USNA

PATENTEE: ANDREW EDWARD FEIRING.
VIACHESLAV
ALEXANDROVICH PETROV,
FRANK LEONARD SCHADT, III

ART UNIT: 1751

ISSUED: APRIL 5, 2005

EXAMINER: ROSEMARY ASHTON

ASSIGNED: E. I. DU PONT DE NEMOURS AND COMPANY

FOR: PREPARATION AND USE OF EXO-2-FLUOROALKYL9BICYCLO[2.2.1]HEPT-5-ENES

REQUEST FOR CERTIFICATE OF CORRECTION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The patentee through his attorney hereby respectfully requests that a Certificate of Correction be issued in the above-referenced patent to correct printing errors in accordance with the attached Certificate of Correction Form PTO/SB/44 submitted in duplicate herewith.

Errors were made by the patentee. Please charge the fee as set in 37 CFR 1.20(a) for \$100.00 to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company). If this fee is insufficient or incorrect, please charge or credit the balance to the above-identified Deposit Account.

Respectfully submitted,

[Signature]

KONRAD S. KAEDING
ATTORNEY FOR PATENTEE

Registration No.: 32,035
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12/02/2005 BABRAHA1 00000078 041928 6875555

01 FC:1811 100.00 DA

Dated: 15 AUGUST 2005
Attachment (Form 1050)

Certificate
DEC 06 2005
of Correction

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PTO/SB/92 (09-04)
Approved for use through 07/31/2006. OMB 0561-0031
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TWO (2) CERTIFICATE OF CORRECTION

Page 1 of 5

This collection of information is required by 37 CFR 1.8. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 1.8 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 24, line 34, 38: " R_f and R_f " should read -- R_f and R_f' --

Column 24, line 45: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin--

Column 24, Structure I and Structure II: that portion of the formula reading
" $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --

Column 24, line 67: " R_f is perfluoromethyl." should read -- R_f' is perfluoromethyl--

Column 25, line 5: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 25, line 7: " $R_f\text{OCF}=\text{CF}_2$ wherein R_f is a fluoroalkyl" should read -- $R_f'\text{OCF}=\text{CF}_2$ wherein R_f' --

Column 25, line 24: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 25, line 29: "endo- and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-" should read --endo- and
exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2--

Column 25, line 34: "substituted norbornene with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;" should read --substituted norbornene
with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;

MAILING ADDRESS OF SENDER (Please do not use customer number below):

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4417 Lancaster Pike
Wilmington, Delaware 19805

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Column 25, line 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 16, 56: " R_f is perfluoromethyl." should read $-\text{R}_f'$ is perfluoromethyl--

Column 26, line 62: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 26, line 63: " $\text{R}_f\text{OCF}=\text{CF}_2$ wherein R_f is a fluoroalkyl group of from 1" should read $-\text{R}_f'\text{OCF}=\text{CF}_2$
wherein R_f' is a fluoroalkyl group of from 1--

Column 27, line 15: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 27, line 30, 43: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 27, line 45: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 27, line 51: " R_f is perfluoromethyl." should read $-\text{R}_f'$ is perfluoromethyl--

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Column 28, line 11: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 28, line 29, 40: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 28, line 43: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 28, line 58: " R_f is perfluoromethyl." should read $-\text{R}_f$ is perfluoromethyl--

Column 28, line 64: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 30, line 7: "2 tetrahydrofuranyl acrylate, and 2-hydroxy-1,1,2-" should read --2-tetrahydrofuranyl
acrylate, and 2-hydroxy-1,1,2--

Column 2, lines 7, 22, 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
-- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --

Column 3, lines 6, 26, 39, 60: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
-- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --

Column 4, line 7, 24, 36: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$ --

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 41: that portion of the structure reading "CH₂C(R_fR_f')OH" should read -CH₂C(R_f)(R_f')OH-

Column 6, line 18: that portion of the structure reading "CH₂C(R_fR_f')OH" should read -CH₂C(R_f)(R_f')OH-

Column 10, line 13, 60: that portion of the structure reading "CH₂C(R_fR_f')OH" should read
-CH₂C(R_f)(R_f')OH-

Claim 1: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--.

Claim 1: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 2: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 5: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin--.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $--\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}--$.

Claim 6: "wherein the R_f and R_f' groups" should read $--$ wherein the R_f and R_f' groups $--$.

Claim 9: "wherein at least one of R_f and R_f' is perfluoromethyl" should read $--$ wherein at least one of R_f and R_f' is perfluoromethyl $--$.

Claim 10: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read $--$ perfluoro-(2-methylene-4-methyl-1,3-dioxolane) $--$.

Claim 10: "and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read $--$ and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is $--$.

Claim 14: "2-tetrahydrofuramyl acrylate" should read $--$ 2-tetrahydrofuranyl acrylate $--$.

Claim 16: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $--\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}--$.

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Claim 16: "and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof" should read --and exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof--.

Claim 16: "wherein in the foregoing structures the R_f and $R_{f'}$ groups" should read --wherein in the foregoing structures the R_f and $R_{f'}$ groups--.

Claim 17: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 22: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_{f'})\text{OH}$ " should read -- $\text{CH}_2\text{C}(\text{R}_f)(\text{R}_{f'})\text{OH}$ --.

Claim 23: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 24: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

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- Claim 24: "and $R_f \cdot OCF = CF_2$ wherein R^f is" should read --and $R_f \cdot OCF = CF_2$ wherein R^f is--.
- Claim 29: "2-tetrahydrofuramyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.
- Claim 31: that portion of the structure reading " $CH_2C(R_f R_f')OH$ " should read -- $CH_2C(R_f)(R_f')OH$ --.
- Claim 31: "wherein the R_f and $R_{f'}$ groups" should read --wherein the R_f and $R_{f'}$ groups--.
- Claim 32: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.
- Claim 38: "2-tetrahydrofuramyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.
- Claim 41: that portion of the structure reading " $CH_2C(R_f R_f')OH$ " should read -- $CH_2C(R_f)(R_f')OH$ --.

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- Claim 43: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.
- Claim 44: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.
- Claim 49: "2-tetrahydrofuranyl acrylate" should read --2-tetrahydrofuranyl acrylate--.

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Column 25, line 34: "substituted norbornene with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;" should read --substituted norbornene
with $\text{ICH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}$;

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**UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 2 of 8

PATENT NO. : 6875555
APPLICATION NO.: 10/664303
ISSUE DATE : APRIL 5, 2005
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 25, line 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 26, line 16, 56: " R_f is perfluoromethyl." should read $-\text{R}_f$ is perfluoromethyl-

Column 26, line 62: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 26, line 63: " $\text{R}_f\text{OCF}=\text{CF}_2$ wherein R_f " is a fluoroalkyl group of from 1" should read $-\text{R}_f\text{OCF}=\text{CF}_2$
wherein R_f " is a fluoroalkyl group of from 1-

Column 27, line 15: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
-2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate-

Column 27, line 30, 43: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 27, line 45: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 27, line 51: " R_f is perfluoromethyl." should read $-\text{R}_f$ is perfluoromethyl-

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 3 of 8

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ISSUE DATE : APRIL 5, 2005
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 28, line 11: "2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate" should read
--2-tetrahydropyranyl acrylate, 2-tetrahydrofuranyl acrylate--

Column 28, line 29, 40: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 28, line 43: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--

Column 28, line 58: " R_f is perfluoromethyl." should read -- R_f is perfluoromethyl--

Column 28, line 64: "dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --dioxole),
perfluoro-(2-methylene-4-methyl-1,3-dioxolane),--

Column 30, line 7: "2 tetrahydrofuranyl acrylate, and 2-hydroxy-1,1,2-" should read --2-tetrahydrofuranyl
acrylate, and 2-hydroxy-1,1,2--

Column 2, lines 7, 22, 48, 58: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 3, lines 6, 26, 39, 60: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read
 $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

Column 4, line 7, 24, 36: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $-\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}-$

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UNITED STATES PATENT AND TRADEMARK OFFICE
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Page 4 of 8

PATENT NO. : 6875555
APPLICATION NO.: 10/664303
ISSUE DATE : APRIL 5, 2005
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 41: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--

Column 6, line 18: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--

Column 10, line 13, 60: that portion of the structure reading "CH₂C(R_fR_f')OH" should read
--CH₂C(R_f)(R_f')OH--

Claim 1: that portion of the structure reading "CH₂C(R_fR_f')OH" should read --CH₂C(R_f)(R_f')OH--.

Claim 1: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 2: "wherein the R_f and R_f' groups" should read --wherein the R_f and R_f' groups--.

Claim 5: "comonomer is a fluorolefin" should read --comonomer is a fluoroolefin--.

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Page 5 of 8

PATENT NO. : 6875555
APPLICATION NO.: 10/664303
ISSUE DATE :
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

- Claim 6: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $--\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}--$.
- Claim 6: "wherein the R_f and R_f' groups" should read $--$ wherein the R_f and R_f' groups $--$.
- Claim 9: "wherein at least one of R_f and R_f' is perfluoromethyl" should read $--$ wherein at least one of R_f and R_f' is perfluoromethyl $--$.
- Claim 10: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read $--$ perfluoro-(2-methylene-4-methyl-1,3-dioxolane) $--$.
- Claim 10: "and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is" should read $--$ and $\text{R}_f\text{-OCF}=\text{CF}_2$ wherein R^f is $--$.
- Claim 14: "2-tetrahydrofuramyl acrylate" should read $--$ 2-tetrahydrofuranyl acrylate $--$.
- Claim 16: that portion of the structure reading " $\text{CH}_2\text{C}(\text{R}_f\text{R}_f')\text{OH}$ " should read $--\text{CH}_2\text{C}(\text{R}_f)(\text{R}_f')\text{OH}--$.

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Page 6 of 8

PATENT NO. : 6875555
APPLICATION NO.: 10/664303
ISSUE DATE :
INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 16: "and exo-2-bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof" should read --and exo-2-(bicyclo[2.2.1]hept-5-en-2-yl)-2,2-fluoroalkyl-ethan-2-ol whereof--.

Claim 16: "wherein in the foregoing structures the R_f and $R_{f'}$ groups" should read --wherein in the foregoing structures the R_f and $R_{f'}$ groups--.

Claim 17: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 22: that portion of the structure reading " $CH_2C(R_fR_{f'})OH$ " should read -- $CH_2C(R_f)(R_{f'})OH$ --.

Claim 23: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 24: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

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Page 7 of 8

PATENT NO. : 6875555

APPLICATION NO.: 10/664303

ISSUE DATE :

INVENTOR(S) : FEIRING ANDREW EDWARD, PETROV VIACHESLAV A., SCHADT, III FRANK LEONARD

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 24: "and $R_f \cdot OCF = CF_2$ wherein R^f is" should read --and $R_f \cdot OCF = CF_2$ wherein R^f is--.

Claim 29: "2-tetrahydrofuramyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 31: that portion of the structure reading " $CH_2C(R_f R_f')OH$ " should read -- $CH_2C(R_f)(R_f')OH$ --.

Claim 31: "wherein the R_f and $R_{f'}$ groups" should read -wherein the R_f and $R_{f'}$ groups--.

Claim 32: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 38: "2-tetrahydrofuramyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

Claim 41: that portion of the structure reading " $CH_2C(R_f R_f')OH$ " should read -- $CH_2C(R_f)(R_f')OH$ --.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Claim 41: "wherein the R_f and $R_{f'}$ groups" should read --wherein the R_f and $R_{f'}$ groups--.

Claim 43: "wherein at least one of R_f and $R_{f'}$ is perfluoromethyl" should read --wherein at least one of R_f and $R_{f'}$ is perfluoromethyl--.

Claim 44: "perfluoro-(2-methylene-4-methyl-1,3-dioxolane)," should read --perfluoro-(2-methylene-4-methyl-1,3-dioxolane)--.

Claim 49: "2-tetrahydrofuranyl acrylate" should read -- 2-tetrahydrofuranyl acrylate--.

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